VSR Civil Infra Pvt. Ltd

#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975

Bengaluru – 560 019.

Name of Work: Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in Ward No - 03, Yelahanka Satellite Town Sub Division.

Client	: Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Consultant	: M/s VSR Civil Infra Pvt. Ltd.
Contractor	: M/s KRIDL, Bangalore

GRADATION FOR DENSE GRADED BITUMINOUS MACADUM

Purpose	DBM	**Date of Sampling**	24.06.2021
Source	Bettahalli	**Sampled by**	PMC
Type of Mix	DBM	**Date of Testing**	24.06.2021
Location	at Stackyard	**Tested by**	PMC
		Weight of sample(gm) :	10525

Sieve Size (mm)	Weight Retained (gm)	Cum. Weight Retained (gm)	Cummulative % Retained	Cummulative % passing	Specification Limits As per MORTH
37.5 mm	0	0	0	100.00	100
26.5 mm	385	385	3.68	96.32	90--100
19.00 mm	2505	2890	27.46	72.54	71--95
13.22 mm	1810	4700	44.66	55.34	56--80
4.75 mm	390	5090	48.36	51.64	38--54
2.36 mm	2005	7095	67.41	32.59	28--42
300 mic	1610	8705	82.71	17.29	7--21
75mic	1375	10080	95.77	4.23	2--8

Remarks : Test result is confirmed as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

AE

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Consultants representative **Contractor Representative** **Client Representative**

VSR Civil Infra Pvt. Ltd

#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975

Bengaluru – 560 019.

Name of Work: Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in Ward No - 03, Yelahanka Satellite Town Sub Division.

Client	: Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Consultant	: M/s VSR Civil Infra Pvt. Ltd.
Contractor	: M/s KRIDL, Bangalore

GRADATION FOR DENSE GRADED BITUMINOUS MACADUM

Purpose	DBM	**Date of Sampling**	24.06.2021
Source	Bettahalli	**Sampled by**	PMC
Type of Mix	DBM	**Date of Testing**	24.06.2021
Location	at Stackyard	**Tested by**	PMC
		Weight of sample(gm) :	11325

Sieve Size (mm)	Weight Retained (gm)	Cum. Weight Retained (gm)	Cummulative % Retained	Cummulative % passing	Specification Limits As per MORTH
37.5 mm	0	0	0	100.00	100
26.5 mm	620	620	5.49	94.51	90--100
19.00 mm	1040	1660	14.66	85.34	71--95
13.22 mm	1135	2795	24.68	75.32	56--80
4.75 mm	3395	6190	54.66	45.34	38--54
2.36 mm	1145	7335	64.77	35.23	28--42
300 mic	2255	9590	84.68	15.32	7--21
75mic	1140	10730	94.75	5.25	2--8

Remarks : Test result is confirmed as per MORTH specification

VSR CIVIL INFRA PVT LTD BANGALORE

AE

Consultants representative **Contractor Representative** **Client Representative**

VSR Civil Infra Pvt. Ltd

#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975

Bengaluru – 560 019.

Name of Work: Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in Ward No - 03, Yelahanka Satellite Town Sub Division.

Client	: Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Consultant	: M/s VSR Civil Infra Pvt. Ltd.
Contractor	: M/s KRIDL, Bangalore

GRADATION FOR DENSE GRADED BITUMINOUS MACADUM

Purpose	DBM	Date of Sampling	25.06.2021
Source	Bettahalli	Sampled by	PMC
Type of Mix	DBM	Date of Testing	25.06.2021
Location	at Stackyard	Tested by	PMC
		Weight of sample(gm) :	11454

Sieve Size (mm)	Weight Retained (gm)	Cum. Weight Retained (gm)	Cummulative % Retained	Cummulative % passing	Specification Limits As per MORTH
37.5 mm	0	0	0	100.00	100
26.5 mm	385	385	3.37	96.63	90--100
19.00 mm	1635	2020	17.64	82.36	71--95
13.22 mm	2430	4450	38.85	61.15	56--80
4.75 mm	895	5345	46.66	53.34	38--54
2.36 mm	2145	7490	65.39	34.61	28--42
300 mic	2515	10005	87.35	12.65	7--21
75mic	1050	11055	96.52	3.48	2--8

Remarks : Test result is confirmed as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಜಿ.ಬಿ.ಎ.ಎ, ಬೆಂಗಳೂರು-೫೬

Consultants representative **Contractor Representative** **Client Representative**

VSR Civil Infra Pvt. Ltd

#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975

Bengaluru – 560 019.

Name of Work: Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in Ward No - 03, Yelahanka Satellite Town Sub Division.

Client	: Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Consultant	: M/s VSR Civil Infra Pvt. Ltd.
Contractor	: M/s KRIDL, Bangalore

GRADATION FOR DENSE GRADED BITUMINOUS MACADUM

Purpose	DBM	Date of Sampling	26.06.2021
Source	Bettahalli	Sampled by	PMC
Type of Mix	DBM	Date of Testing	26.06.2021
Location	at Stackyard	Tested by	PMC
		Weight of sample(gm) :	13625

Sieve Size (mm)	Weight Retained (gm)	Cum. Weight Retained (gm)	Cummulative % Retained	Cummulative % passing	Specification Limits As per MORTH
37.5 mm	0	0	0	100.00	100
26.5 mm	745	745	5.48	94.52	90--100
19.00 mm	1685	2430	17.83	81.52	71--95
13.22 mm	2545	4975	36.51	32.65	56--80
4.75 mm	3180	8155	59.85	15.63	38--54
2.36 mm	1380	9535	69.98	30.02	28--42
300 mic	1830	11365	83.41	16.59	7--21
75mic	1330	12695	93.17	6.83	2--8

Remarks : Test result is confirmed as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

Consultants representative | **Contractor Representative** | **Client Representative**

VSR Civil Infra Pvt. Ltd
#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975
Bengaluru – 560 019.

Name of Work: Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in Ward No - 03, Yelahanka Satellite Town Sub Division.

Client	: Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Consultant	: M/s VSR Civil Infra Pvt. Ltd.
Contractor	: M/s KRIDL, Bangalore

BITUMEN EXTRACTION TEST

Purpose	DBM	Date of Sampling	24.06.2021
Source	Bettahalli	Sampled by	PMC
Type of Mix	DBM	Date of Testing	24.06.2021
Location	at Site	Tested by	PMC

SI NO	Description	Trail 1	Trail 2
1	Initial weight of sample (gms) W1	461	
2	Initial weight of Filter Paper (gms) W2	4.17	
3	Final weight of sample (gms) W3	439.4128	
4	Final weight of Filter Paper (gms) W4	4.92	
5	Weight of Finess (gms) W5= (W4- W2)	0.75	
6	Weight of Bitumen W6= W1-(w3+W5)	20.84	
7	Binder contant (W6/W1)x100	4.52	

Remarks : Test result is confirmed as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಜಿ.ಬಿ.ಎ.ಎ.ಕ, ಬೆಂಗಳೂರು-೫೬

Consultants representative | Contractor Representative | Client Representative

VSR Civil Infra Pvt. Ltd
#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975
Bengaluru – 560 019.

Name of Work: Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in Ward No - 03, Yelahanka Satellite Town Sub Division.

Client	: Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Consultant	: M/s VSR Civil Infra Pvt. Ltd.
Contractor	: M/s KRIDL, Bangalore

BITUMEN EXTRACTION TEST

Purpose	DBM	Date of Sampling	25.06.2021
Source	Bettahalli	Sampled by	PMC
Type of Mix	DBM	Date of Testing	25.06.2021
Location	at Site	Tested by	PMC

SI NO	Description	Trail 1	Trail 2
1	Initial weight of sample (gms) W1	500	
2	Initial weight of Filter Paper (gms) W2	4.17	
3	Final weight of sample (gms) W3	476.6	
4	Final weight of Filter Paper (gms) W4	4.92	
5	Weight of Finess (gms) W5= (W4- W2)	0.75	
6	Weight of Bitumen W6= W1-(w3+W5)	22.65	
7	Binder contant (W6/W1)x100	4.53	

Remarks : Test result is confirmed as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

Consultants representative **Contractor Representative** **Client Representative**

VSR Civil Infra Pvt. Ltd
#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975
Bengaluru – 560 019.

Name of Work: Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in Ward No - 03, Yelahanka Satellite Town Sub Division.

Client	: Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Consultant	: M/s VSR Civil Infra Pvt. Ltd.
Contractor	: M/s KRIDL, Bangalore

BITUMEN EXTRACTION TEST

Purpose	DBM	Date of Sampling	26.06.2021
Source	Bettahalli	Sampled by	PMC
Type of Mix	DBM	Date of Testing	26.06.2021
Location	at Site	Tested by	PMC

SI NO	Description	Trail 1	Trail 2
1	Initial weight of sample (gms) W1	546	
2	Initial weight of Filter Paper (gms) W2	4.17	
3	Final weight of sample (gms) W3	520.68	
4	Final weight of Filter Paper (gms) W4	4.92	
5	Weight of Finess (gms) W5= (W4- W2)	0.75	
6	Weight of Bitumen W6= W1-(w3+W5)	24.57	
7	Binder contant (W6/W1)x100	4.50	

Remarks : Test result is confirmed as per MORTH specification

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಜಿ.ಬಿ.ಎ.ಎ, ಬೆಂಗಳೂರು-106

VSR CIVIL INFRA PVT. LTD. BANGALORE

Consultants representative | Contractor Representative | Client Representative

VSR Civil Infra Pvt. Ltd.
#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975
Bengaluru – 560 019.

Name of Work: Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in Ward No - 03, Yelahanka Satellite Town Sub Division.

Client	: Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Consultant	: M/s VSR Civil Infra Pvt. Ltd.
Contractor	: M/s KRIDL, Bangalore

Purpose	BC	Date of Sampling	29.06.2021
Source	Bettahalli	Sampled by	PMC
Type of Mix	BC	Date of Testing	29.06.2021
Chainage	at Stackyard	Tested by	PMC

GRADATION OF BC (GRADE-II)

Weight of sample: 9254 gms

Sieve Size	Weight Retained (gm)	Cum. Weight Retained (gm)	Cummulative % Retained	Cummulative % passing	Specification Limits As per MORTH
19mm	0	0	0	100.00	100
13.2mm	310	310	3.37	96.63	90 -- 100
9.5mm	2055	2365	25.56	74.44	70 -- 88
4.75mm	1025	3390	36.63	63.37	53 -- 71
2.36mm	1225	4615	49.87	50.13	42 -- 58
1.18mm	720	5335	57.65	42.35	34 -- 48
600mic	525	5860	63.32	36.68	26 -- 38
300mic	1420	7280	78.67	21.33	18 -- 28
150mic	595	7875	85.10	14.90	12 -- 20
75mic	765	8640	93.37	6.63	4 -- 10

Remarks : Test result is confirmed as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಪ.ಪಂ.ಕಿ. ಬೆಂಗಳೂರು-106

Consultants representative | Contractor Representative | Client Representative

VSR Civil Infra Pvt. Ltd.
#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975
Bengaluru – 560 019.

Name of Work: Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in Ward No - 03, Yelahanka Satellite Town Sub Division.

Client	: Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Consultant	: M/s VSR Civil Infra Pvt. Ltd.
Contractor	: M/s KRIDL, Bangalore

Purpose	BC	Date of Sampling	30.06.2021
Source	Bettahalli	Sampled by	PMC
Type of Mix	BC	Date of Testing	30.06.2021
Chainage	at Stackyard	Tested by	PMC

GRADATION OF BC (GRADE-II)

Weight of sample: 9655 gms

Sieve Size	Weight Retained (gm)	Cum. Weight Retained (gm)	Cummulative % Retained	Cummulative % passing	Specification Limits As per MORTH
19mm	0	0	0	100.00	100
13.2mm	645	645	6.69	93.31	90 –100
9.5mm	1940	2585	26.77	73.23	70 -- 88
4.75mm	840	3425	35.47	64.53	53 -- 71
2.36mm	1390	4815	49.87	50.13	42 -- 58
1.18mm	1095	5910	61.21	38.79	34 -- 48
600mic	845	6755	69.96	30.04	26 – 38
300mic	665	7420	76.85	23.15	18 -- 28
150mic	840	8260	85.55	14.45	12 -- 20
75mic	750	9010	93.32	6.68	4 -- 10

Remarks : Test result is confirmed as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

Consultants representative | Contractor Representative | Client Representative

VSR Civil Infra Pvt. Ltd.
#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975
Bengaluru – 560 019.

Name of Work: Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in Ward No - 63, Yelahanka Satellite Town Sub Division.

Client	: Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Consultant	: M/s VSR Civil Infra Pvt. Ltd.
Contractor	: M/s KRIDL, Bangalore

Purpose	BC	Date of Sampling	01.07.2021
Source	Bettahalli	Sampled by	PMC
Type of Mix	BC	Date of Testing	01.07.2021
Chainage	at Stackyard	Tested by	PMC

GRADATION OF BC (GRADE-II)

Weight of sample: 9850 gms

Sieve Size	Weight Retained (gm)	Cum. Weight Retained (gm)	Cummulative % Retained	Cummulative % passing	Specification Limits As per MORTH
19mm	0	0	0	100.00	100
13.2mm	360	360	3.68	96.32	90 –100
9.5mm	1375	1735	17.61	82.39	70 – 88
4.75mm	1340	3075	31.22	68.78	53 – 71
2.36mm	1640	4715	47.87	52.13	42 – 58
1.18mm	1315	6030	61.22	38.78	34 – 48
600mic	740	6770	68.73	31.27	26 – 38
300mic	670	7440	75.53	24.47	18 – 28
150mic	550	7990	81.12	18.88	12 – 20
75mic	1205	9195	93.35	6.65	4 – 10

Remarks : Test result is confirmed as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

Consultants representative

Contractor Representative

Client Representative

VSR Civil Infra Pvt. Ltd
#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975
Bengaluru – 560 019.

me of Work: Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas Ward No - 03, Yelahanka Satellite Town Sub Division.

ent	: Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
nsultant	: M/s VSR Civil Infra Pvt. Ltd.
ntractor	: M/s KRIDL, Bangalore

BITUMEN EXTRACTION TEST

pose	BC	Date of Sampling	29.06.2021
rce	Bettahalli	Sampled by	PMC
e of Mix	BC	Date of Testing	29.06.2021
ation	at Site	Tested by	PMC

Sl no	Description	Trail 1	Trail 2
1	Initial weight of sample (gms) W1	486	
2	Initial weight of Filter Paper (gms) W2	4.17	
3	Final weight of sample (gms) W3	458.9088	
4	Final weight of Filter Paper (gms) W4	4.92	
5	Weight of Finess (gms) W5= (W4- W2)	0.75	
6	Weight of Bitumen W6= W1-(w3+W5)	26.34	
7	Binder contant (W6/W1)x100	5.42	

marks : Test result is confirmed as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

Consultants representative

Contractor Representative

Client Representative

VSR Civil Infra Pvt. Ltd
#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975
Bengaluru – 560 019.

me of Work: Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas Ward No - 03, Yelahanka Satellite Town Sub Division.

ent	: Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
sultant	: M/s VSR Civil Infra Pvt. Ltd.
tractor	: M/s KRIDL, Bangalore

BITUMEN EXTRACTION TEST

pose	BC	Date of Sampling	30.06.2021
rce	Bettahalli	Sampled by	PMC
e of Mix	BC	Date of Testing	30.06.2021
ation	at Site	Tested by	PMC

Sl no	Description	Trail 1	Trail 2
1	Initial weight of sample (gms) W1	545	
2	Initial weight of Filter Paper (gms) W2	4.17	
3	Final weight of sample (gms) W3	514.8745	
4	Final weight of Filter Paper (gms) W4	4.92	
5	Weight of Finess (gms) W5= (W4- W2)	0.75	
6	Weight of Bitumen W6= W1-(w3+W5)	29.38	
7	Binder contant (W6/W1)x100	5.39	

emarks : Test result is confirmed as per MORTH specification

VSR CIVIL INFRA PVT LTD BANGALORE

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Consultants representative | Contractor Representative | Client Representative

VSR Civil Infra Pvt. Ltd

#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975

Bengaluru – 560 019.

Work: Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas Jo - 03, Yelahanka Satellite Town Sub Division.

	: Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
ınt	: M/s VSR Civil Infra Pvt. Ltd.
tor	: M/s KRIDL, Bangalore

BITUMEN EXTRACTION TEST

	BC	**Date of Sampling**	01.07.2021
	Bettahalli	**Sampled by**	PMC
Mix	BC	**Date of Testing**	01.07.2021
a	at Site	**Tested by**	PMC

no	Description	Trail 1	Trail 2
1	**Initial weight of sample (gms) W1**	576	
2	**Initial weight of Filter Paper (gms) W2**	4.17	
3	**Final weight of sample (gms) W3**	544.146	
4	**Final weight of Filter Paper (gms) W4**	4.92	
5	**Weight of Finess (gms) W5= (W4- W2)**	0.75	
6	**Weight of Bitumen W6= W1-(w3+W5)**	31.10	
7	**Binder contant (W6/W1)x100**	5.40	

marks : Test result is confirmed as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Consultants representative **Contractor Representative** **Client Representative**

2-86219/-

VSR Civil Infra Pvt. Ltd
#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975
Bengaluru – 560 019.

of Work: Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas
d No - 03, Yelahanka Satellite Town Sub Division.

	: Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
ltant	: M/s VSR Civil Infra Pvt. Ltd.
actor	: M/s KRIDL, Bangalore

BITUMEN EXTRACTION TEST

e	BC	Date of Sampling	01.07.2021
	Bettahalli	Sampled by	PMC
f Mix	BC	Date of Testing	01.07.2021
ion	at Site	Tested by	PMC

l no	Description	Trail 1	Trail 2
1	Initial weight of sample (gms) W1	468	
2	Initial weight of Filter Paper (gms) W2	4.17	
3	Final weight of sample (gms) W3	442.0716	
4	Final weight of Filter Paper (gms) W4	4.92	
5	Weight of Finess (gms) W5= (W4- W2)	0.75	
6	Weight of Bitumen W6= W1-(w3+W5)	25.18	
7	Binder contant (W6/W1)x100	5.38	

emarks : Test result is confirmed as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಜಿ.ಬಿ.ಎ.ಎ. ಬೆಂಗಳೂರು-೧೦೬

Consultants representative | Contractor Representative | Client Representative